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DATE MAILED: 04/08/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/632,343	08/01/2003	John B. Letts	P02030US2A(336)	3593
75	90 04/08/2005	EXAMINER		
	aChief Intellectual Pro	COONEY, JOHN M		
Bridgestone Americas Holding, Inc. 1200 Firestone Parkway Akron, OH 44317			ART UNIT	PAPER NUMBER
			1711	

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)
Office Action Summan.	10/632,343	LETTS ET AL.
Office Action Summary	Examiner	Art Unit
TI MANUA DATE (M.)	John m Cooney	1711
The MAILING DATE of this communication apprend for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be timwithin the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under Expression in the practice of the condition of the closed in accordance with the practice of the condition of the closed in accordance with the practice under Expression in the closed in accordance with the practice of the closed in accordance with the practice of the closed in the closed in accordance with the practice of the closed in the closed i	action is non-final. ace except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or		
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original original contents are considered to by the Examiner of the specific original contents are considered to by the Examiner or the contents of the contents o	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2 shts.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Art Unit: 1711

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-20 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for separate and distinct blowing agents and low-boiling inert gases, does not reasonably provide enablement for methods wherein the employed blowing agent and low-boiling inert gas are the same material. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims. The materials "blowing agent" and "low-boiling inert gas" may be the same component, and applicants' supporting disclosure is not enabling for both components to be the same material.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7, 10-13,16-18 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "low-boiling" in claims 1-7, 10-13, 16-18, and 20 is a relative term which renders the claim indefinite. The term "low-boiling" is not defined by the claim, the

specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Claims are confusing as to intent because it can not be determined what boiling points would constitute a "low-boiling" point and which boiling points would constitute a "high-boiling" point. Therefore, it can not be determined what materials are encompassed by applicants' claim element "a low-boiling inert gas".

Claims 10-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

When appended to an otherwise definite expression, "type" so extends the scope of the expression as to render it objectionably indefinite. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wishneski et al.(5,264,464) in view of Volkert et al.(5,278,195).

Wishneski et al. discloses preparations of isocyanate-based rigid foams prepared by contacting streams of isocyanate component and a polyol component wherein contacting takes

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place in the presence of blowing agent and nitrogen gas to enhance the foaming action and wherein the materials are applied to a surface which meet the criteria of "laminator" as defined by the claims (see the entire document). Wishneski et al. teaches control of the flow rates of its reactants (see column 9 lines 32-34), but the disclosure differs from applicants' claims in that it is concerned with the formation of polyurethane foams. However, Volkert et al. discloses that control in the relative amounts of reactive materials dictates formation of isocyanurate foam products rather than polyurethane foam products when preparing isocyanate based foams (see column 17 lines 17-35, as well as, the entire document). Additionally, Volkert et al. teaches the motivation of achieving increased flame retardancy as one reason to desire such a modulation in reactant amounts. Accordingly, it would have been obvious for one having ordinary skill in the art to have modified NCO indexes in the manner taught by Volkert et al. within the practice of the processes of Wishneski et al. for the purpose of increasing fire retardancy in the articles realized in order to arrive at the processes of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raynor et al. (3,882,052) in view of Volkert et al. (5,278,195).

Raynor et al. discloses preparations of isocyanate-based rigid foams prepared by contacting streams of isocyanate component and a polyol component wherein contacting takes place in the presence of blowing agent and nitrogen gas to enhance the foaming action and wherein the materials are applied to a surface which meet the criteria of "laminator" as defined by the claims (see the entire document). Raynor et al. teaches control of the flow rates of its

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reactants (see column 6 line 65 et seq.), but the disclosure differs from applicants' claims in that it is concerned with the formation of polyurethane foams. However, Volkert et al. discloses that control in the relative amounts of reactive materials dictates formation of isocyanurate foam products rather than polyurethane foam products when preparing isocyanate based foams (see column 17 lines 17-35, as well as, the entire document). Additionally, Volkert et al. teaches the motivation of achieving increased flame retardancy as one reason to desire such a modulation in reactant amounts. Accordingly, it would have been obvious for one having ordinary skill in the art to have modified NCO indexes in the manner taught by Volkert et al. within the practice of the processes of Raynor et al. for the purpose of increasing fire retardancy in the articles realized in order to arrive at the processes of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Cooney whose telephone number is 571-272-1070. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JOHN M. COONEY AR PRIMARY EXAMINER